

OIRP

CRF Error Corrected by the STIC Systems Branch

Serial Number:

09/844,132

CRF Processing Date:

5/10/2001

Edited by:

Verified by:

(STIC staff)

ENTERED

☐

Changed a file from non-ASCII to ASCII

☐

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐

Edited a format error in the Current Application Data section, specifically:

2

☐Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____☐

Added the mandatory heading and subheadings for "Current Application Data".

☐

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☐

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

☐

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☐

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐

Inserted colons after headings/subheadings. Headings edited included:

☐

Deleted extra, invalid, headings used by an applicant, specifically:

☐Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____☐

Inserted mandatory headings, specifically:

☐

Corrected an obvious error in the response, specifically:

☐

Edited identifiers where upper case is used but lower case is required, or vice versa.

☐

Corrected an error in the Number of Sequences field, specifically:

☐

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:☒

Other:

corrected spelling of *Chlamydia* globally

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING

DATE: 05/22/2001

PATENT APPLICATION: US/09/841,132

TIME: 16:14:05

Input Set : A:\US08186269A.raw

Output Set: C:\CRF3\05222001\I841132.raw

PS

4 <110> APPLICANT: Bhatia, Ajay
5 Skeiky, Yasir A.W.
6 Probst, Peter
8 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
9 DIAGNOSIS OF CHLAMYDIAL INFECTION
11 <130> FILE REFERENCE: 210121.469C8
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/841,132
14 <141> CURRENT FILING DATE: 2001-04-23
16 <160> NUMBER OF SEQ ID NOS: 599
18 <170> SOFTWARE: FastSEQ for Windows Version 3.0/4.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 481
22 <212> TYPE: DNA
23 <213> ORGANISM: Chlamydia trachomatis
25 <400> SEQUENCE: 1
26 ctgaagactt ggctatgttt tttattttga cgataaacct agttaaggca taaaagagtt 60
27 gcgaaggaag agccctcaac ttttcttctc accttcttta actaggagtc atccatgagt 120
28 caaaataaga actctgcttt catgcagcct gtgaacgtat ccgctgattt agctgccatc 180
29 gttggtgcag gacctatgcc tcgcacagag atcattaaga aaatgtggga ttacattaag 240
30 gagaatagtc ttcaagatcc tacaacaaa cgtaatatca atcccgatga taaattggct 300
31 aaagtttttg gaactgaaaa acctatcgat atgttccaaa tgacaaaaat ggtttctcaa 360
32 cacatcatta aataaaatag aaattgactc acgtgttcct cgtctttaag atgaggaact 420
33 agttcattct ttttgttcgt ttttgtgggt attactgtat ctttaacaac tatcttagca 480
34 g 481
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 183
38 <212> TYPE: DNA
39 <213> ORGANISM: Chlamydia trachomatis
41 <400> SEQUENCE: 2
42 atcgttgggtg caggacctat gcctcgcaca gagatcatta agaaaatgtg ggattacatt 60
43 aaggagaata gtcttcaaga tcctacaaac aaacgtaata tcaatcccga tgataaattg 120
44 gctaaagttt ttggaactga aaaacctatc gatatgttcc aaatgacaaa aatggtttct 180
45 caa 183
47 <210> SEQ ID NO: 3
48 <211> LENGTH: 110
49 <212> TYPE: DNA
50 <213> ORGANISM: Chlamydia trachomatis
52 <400> SEQUENCE: 3
53 gctgcgacat catgcgagct tgcaaaccac catggacatc tccaatttcc ccttctaact 60
54 cgctcttttg aactaatgct gctaccgagt caatcacaat cacatcgacc 110
56 <210> SEQ ID NO: 4
57 <211> LENGTH: 555
58 <212> TYPE: DNA
59 <213> ORGANISM: Chlamydia trachomatis
61 <400> SEQUENCE: 4
62 cggcagcagc ctaagatgct tatactactt taaggaggc ccttcgtatg ccgcgcatca 60
63 ttggaataga tattcctgcg aaaaagaaat taaaaataag tcttacatat atttatggaa 120

RAW SEQUENCE LISTING

DATE: 05/22/2001

PATENT APPLICATION: US/09/841,132

TIME: 16:14:05

Input Set : A:\US08186269A.raw

Output Set: C:\CRF3\05222001\I841132.raw

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64 tagggccagc tctttctaaa gagattattg ctagattgca gttgaatccc gaagctagag 180
65 ctgcagagtt gactgaggaa gaggttggtc gactaaacgc tcttttacag tcggattacg 240
66 ttgttgaagg ggatttgcgc cgtcgtgtgc aatctgatat caaacgtctg attactatcc 300
67 atgcttatcg tggacaaaaga catagacttt ctttgccctgt tcgtgggtcag agaacaaaaa 360
68 caaattctcg cacgcgtaag ggtaaacgta aaactattgc aggtagaag aaataataat 420
69 ttttaggaga gagtgttttg gttaaaaatc aagcgcaaaa aagaggcgta aaaagaaaac 480
70 aagtaaaaaa cattccttcg ggcgttgtcc atgttaaggc tacttttaat aatacaattg 540
71 taaccataac agacc 555

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73 <210> SEQ ID NO: 5

74 <211> LENGTH: 86

75 <212> TYPE: PRT

76 <213> ORGANISM: Chlamydia trachomatis

78 <400> SEQUENCE: 5

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79 Met Ser Gln Asn Lys Asn Ser Ala Phe Met Gln Pro Val Asn Val Ser
80 1 5 10 15
81 Ala Asp Leu Ala Ala Ile Val Gly Ala Gly Pro Met Pro Arg Thr Glu
82 20 25 30
83 Ile Ile Lys Lys Met Trp Asp Tyr Ile Lys Glu Asn Ser Leu Gln Asp
84 35 40 45
85 Pro Thr Asn Lys Arg Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys Val
86 50 55 60
87 Phe Gly Thr Glu Lys Pro Ile Asp Met Phe Gln Met Thr Lys Met Val
88 65 70 75 80
89 Ser Gln His Ile Ile Lys
90 85

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92 <210> SEQ ID NO: 6

93 <211> LENGTH: 61

94 <212> TYPE: PRT

95 <213> ORGANISM: Chlamydia trachomatis

97 <400> SEQUENCE: 6

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98 Ile Val Gly Ala Gly Pro Met Pro Arg Thr Glu Ile Ile Lys Lys Met
99 1 5 10 15
100 Trp Asp Tyr Ile Lys Glu Asn Ser Leu Gln Asp Pro Thr Asn Lys Arg
101 20 25 30
102 Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys Val Phe Gly Thr Glu Lys
103 35 40 45
104 Pro Ile Asp Met Phe Gln Met Thr Lys Met Val Ser Gln
105 50 55 60

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107 <210> SEQ ID NO: 7

108 <211> LENGTH: 36

109 <212> TYPE: PRT

110 <213> ORGANISM: Chlamydia trachomatis

112 <400> SEQUENCE: 7

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113 Ala Ala Thr Ser Cys Glu Leu Ala Asn Gln His Gly His Leu Gln Phe
114 1 5 10 15
115 Pro Leu Leu Thr Arg Ser Leu Glu Leu Met Leu Leu Pro Ser Gln Ser
116 20 25 30
117 Gln Ser His Arg
118 35

```

RAW SEQUENCE LISTING

DATE: 05/22/2001

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TIME: 16:14:05

Input Set : A:\US08186269A.raw

Output Set: C:\CRF3\05222001\I841132.raw

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120 <210> SEQ ID NO: 8
121 <211> LENGTH: 18
122 <212> TYPE: PRT
123 <213> ORGANISM: Chlamydia trachomatis
125 <400> SEQUENCE: 8
126 Leu Arg His His Ala Ser Leu Gln Thr Asn Met Asp Ile Ser Asn Phe
127   1                               5               10               15
128 Pro Phe
131 <210> SEQ ID NO: 9
132 <211> LENGTH: 5
133 <212> TYPE: PRT
134 <213> ORGANISM: Chlamydia trachomatis
136 <400> SEQUENCE: 9
137 Leu Ala Leu Trp Asn
138   1               5
140 <210> SEQ ID NO: 10
141 <211> LENGTH: 11
142 <212> TYPE: PRT
143 <213> ORGANISM: Chlamydia trachomatis
145 <400> SEQUENCE: 10
146 Cys Cys Tyr Arg Val Asn His Asn His Ile Asp
147   1               5               10
149 <210> SEQ ID NO: 11
150 <211> LENGTH: 36
151 <212> TYPE: PRT
152 <213> ORGANISM: Chlamydia trachomatis
154 <400> SEQUENCE: 11
155 Val Asp Val Ile Val Ile Asp Ser Val Ala Ala Leu Val Pro Lys Ser
156   1               5               10               15
157 Glu Leu Glu Gly Glu Ile Gly Asp Val His Val Gly Leu Gln Ala Arg
158   20               25               30
159 Met Met Ser Gln
160   35
162 <210> SEQ ID NO: 12
163 <211> LENGTH: 122
164 <212> TYPE: PRT
165 <213> ORGANISM: Chlamydia trachomatis
167 <400> SEQUENCE: 12
168 Met Pro Arg Ile Ile Gly Ile Asp Ile Pro Ala Lys Lys Lys Leu Lys
169   1               5               10               15
170 Ile Ser Leu Thr Tyr Ile Tyr Gly Ile Gly Pro Ala Leu Ser Lys Glu
171   20               25               30
172 Ile Ile Ala Arg Leu Gln Leu Asn Pro Glu Ala Arg Ala Ala Glu Leu
173   35               40               45
174 Thr Glu Glu Glu Val Gly Arg Leu Asn Ala Leu Leu Gln Ser Asp Tyr
175   50               55               60
176 Val Val Glu Gly Asp Leu Arg Arg Arg Val Gln Ser Asp Ile Lys Arg
177   65               70               75               80
178 Leu Ile Thr Ile His Ala Tyr Arg Gly Gln Arg His Arg Leu Ser Leu

```

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Input Set : A:\US08186269A.raw

Output Set: C:\CRF3\05222001\I841132.raw

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179          85          90          95
180  Pro Val Arg Gly Gln Arg Thr Lys Thr Asn Ser Arg Thr Arg Lys Gly
181          100          105          110
182  Lys Arg Lys Thr Ile Ala Gly Lys Lys Lys
183          115          120
185 <210> SEQ ID NO: 13
186 <211> LENGTH: 20
187 <212> TYPE: PRT
188 <213> ORGANISM: Chlamydia trachomatis
190 <400> SEQUENCE: 13
191  Asp Pro Thr Asn Lys Arg Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys
192    1          5          10          15
193  Val Phe Gly Thr
194          20
196 <210> SEQ ID NO: 14
197 <211> LENGTH: 20
198 <212> TYPE: PRT
199 <213> ORGANISM: Chlamydia trachomatis
201 <400> SEQUENCE: 14
202  Asp Asp Lys Leu Ala Lys Val Phe Gly Thr Glu Lys Pro Ile Asp Met
203    1          5          10          15
204  Phe Gln Met Thr
205          20
207 <210> SEQ ID NO: 15
208 <211> LENGTH: 161
209 <212> TYPE: DNA
210 <213> ORGANISM: Chlamydia trachomatis
212 <400> SEQUENCE: 15
213  atctttgtgt gtctcataag cgcagagcgg ctgcggctgt ctgtagcttc atcggaggaa      60
214  ttacctacct cgcgacattc ggagctatcc gtccgattct gtttgtcaac aaaatgctgg      120
215  cgcaaccgtt tctttcttcc caaactaaag caaatatggg a      161
217 <210> SEQ ID NO: 16
218 <211> LENGTH: 897
219 <212> TYPE: DNA
220 <213> ORGANISM: Chlamydia trachomatis
222 <400> SEQUENCE: 16
223  atggcttcta tatgcggacg tttagggctct ggtacagga atgctctaaa agcttttttt      60
224  acacagccca acaataaaat ggcaagggtg gtaaataaga cgaagggaat ggataagact      120
225  attaagggtg ccaagtctgc tgccgaattg accgcaaata ttttggaaca agctggaggc      180
226  gcgggctctt ccgcacacat tacagcttcc caagtgtcca aaggattagg ggatgcgaga      240
227  actgttgtcg cttagggaa tgcctttaac ggagcgttgc caggaacagt tcaaagtgcg      300
228  caaagcttct tctctcacat gaaagctgct agtcagaaaa cgcaagaagg ggatgagggg      360
229  ctcacagcag atctttgtgt gtctcataag cgcagagcgg ctgcggctgt ctgtagcatc      420
230  atcggaggaa ttacctacct cgcgacattc ggagctatcc gtccgattct gtttgtcaac      480
231  aaaatgctgg caaaaccgtt tctttcttcc caaactaaag caaatatggg atcttctgtt      540
232  agctatatta tggcggctaa ccatgcagcg tctgtgtgtg gtgctggact cgctatcagt      600
233  gcggaaagag cagattgcga agcccgtgc gctcgtattg cgagagaaga gtcgttactc      660
234  gaagtgccgg gagaggaaaa tgcttgcgag aagaaagtcg ctggagagaa agccaagacg      720
235  ttcacgcgca tcaagtatgc actcctcact atgctcgaga agtttttgga atgcgttgcc      780

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DATE: 05/22/2001

PATENT APPLICATION: US/09/841,132

TIME: 16:14:05

Input Set : A:\US08186269A.raw

Output Set: C:\CRF3\05222001\I841132.raw

```

236 gacgttttca aattggtgcc gctgcctatt acaatgggta ttcgtgcgat tgtggctgct 840
237 ggatgtacgt tcacttctgc aattattgga ttgtgcactt tctgcgccag agcataa 897
239 <210> SEQ ID NO: 17
240 <211> LENGTH: 298
241 <212> TYPE: PRT
242 <213> ORGANISM: Chlamydia trachomatis
244 <400> SEQUENCE: 17
245 Met Ala Ser Ile Cys Gly Arg Leu Gly Ser Gly Thr Gly Asn Ala Leu
246 1 5 10 15
247 Lys Ala Phe Phe Thr Gln Pro Asn Asn Lys Met Ala Arg Val Val Asn
248 20 25 30
249 Lys Thr Lys Gly Met Asp Lys Thr Ile Lys Val Ala Lys Ser Ala Ala
250 35 40 45
251 Glu Leu Thr Ala Asn Ile Leu Glu Gln Ala Gly Gly Ala Gly Ser Ser
252 50 55 60
253 Ala His Ile Thr Ala Ser Gln Val Ser Lys Gly Leu Gly Asp Ala Arg
254 65 70 75 80
255 Thr Val Val Ala Leu Gly Asn Ala Phe Asn Gly Ala Leu Pro Gly Thr
256 85 90 95
257 Val Gln Ser Ala Gln Ser Phe Phe Ser His Met Lys Ala Ala Ser Gln
258 100 105 110
259 Lys Thr Gln Glu Gly Asp Glu Gly Leu Thr Ala Asp Leu Cys Val Ser
260 115 120 125
261 His Lys Arg Arg Ala Ala Ala Val Cys Ser Ile Ile Gly Gly Ile
262 130 135 140
263 Thr Tyr Leu Ala Thr Phe Gly Ala Ile Arg Pro Ile Leu Phe Val Asn
264 145 150 155 160
265 Lys Met Leu Ala Lys Pro Phe Leu Ser Ser Gln Thr Lys Ala Asn Met
266 165 170 175
267 Gly Ser Ser Val Ser Tyr Ile Met Ala Ala Asn His Ala Ala Ser Val
268 180 185 190
269 Val Gly Ala Gly Leu Ala Ile Ser Ala Glu Arg Ala Asp Cys Glu Ala
270 195 200 205
271 Arg Cys Ala Arg Ile Ala Arg Glu Glu Ser Leu Leu Glu Val Pro Gly
272 210 215 220
273 Glu Glu Asn Ala Cys Glu Lys Lys Val Ala Gly Glu Lys Ala Lys Thr
274 225 230 235 240
275 Phe Thr Arg Ile Lys Tyr Ala Leu Leu Thr Met Leu Glu Lys Phe Leu
276 245 250 255
277 Glu Cys Val Ala Asp Val Phe Lys Leu Val Pro Leu Pro Ile Thr Met
278 260 265 270
279 Gly Ile Arg Ala Ile Val Ala Ala Gly Cys Thr Phe Thr Ser Ala Ile
280 275 280 285
281 Ile Gly Leu Cys Thr Phe Cys Ala Arg Ala
282 290 295
284 <210> SEQ ID NO: 18
285 <211> LENGTH: 18
286 <212> TYPE: PRT
287 <213> ORGANISM: Chlamydia trachomatis

```

Please Note:

Use f n and/ r Xaa have been detected in the Sequence Listing. Pleas review th Sequence Listing t ensure that a c rresponding explanation is presented in the <220> to <223> fields of each sequenc which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/841,132

DATE: 05/22/2001

TIME: 16:14:06

Input Set : A:\US08186269A.raw

Output Set: C:\CRF3\05222001\I841132.raw

L:13 M:270 C: Current Application Number differs, Wrong Format

L:709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:1265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:1266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:1295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:1296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:1297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:1358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76
L:2310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120
L:3766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175
L:3970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176
L:5193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189
L:5197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189
L:5219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189
L:5221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189
L:5223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189
L:6854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:263
L:6895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:264
L:6931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265
L:6972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:266
L:7058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:271
L:7316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287
L:17644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:492
L:18675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:512
L:18677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:512
L:19520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:524
L:19522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:524